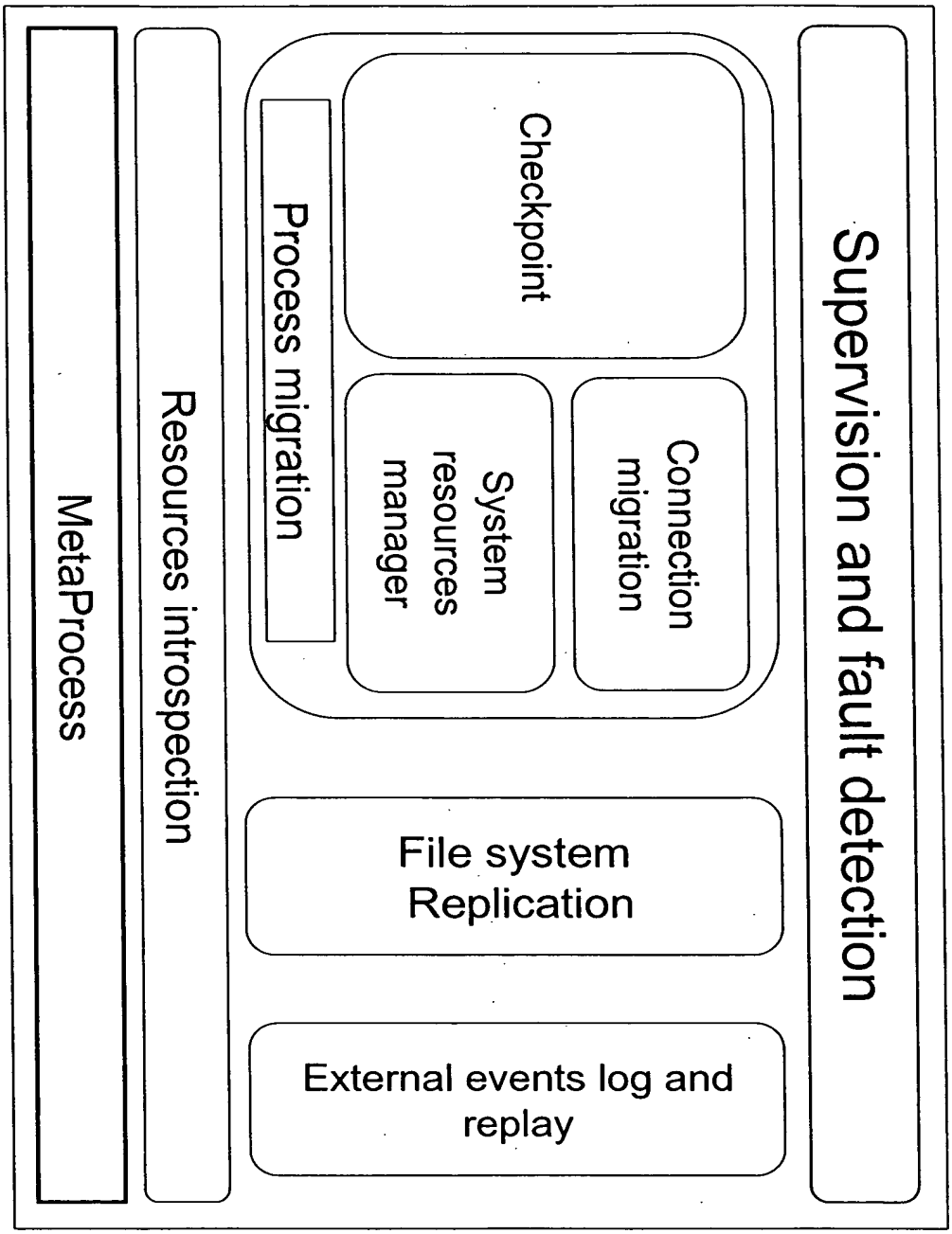
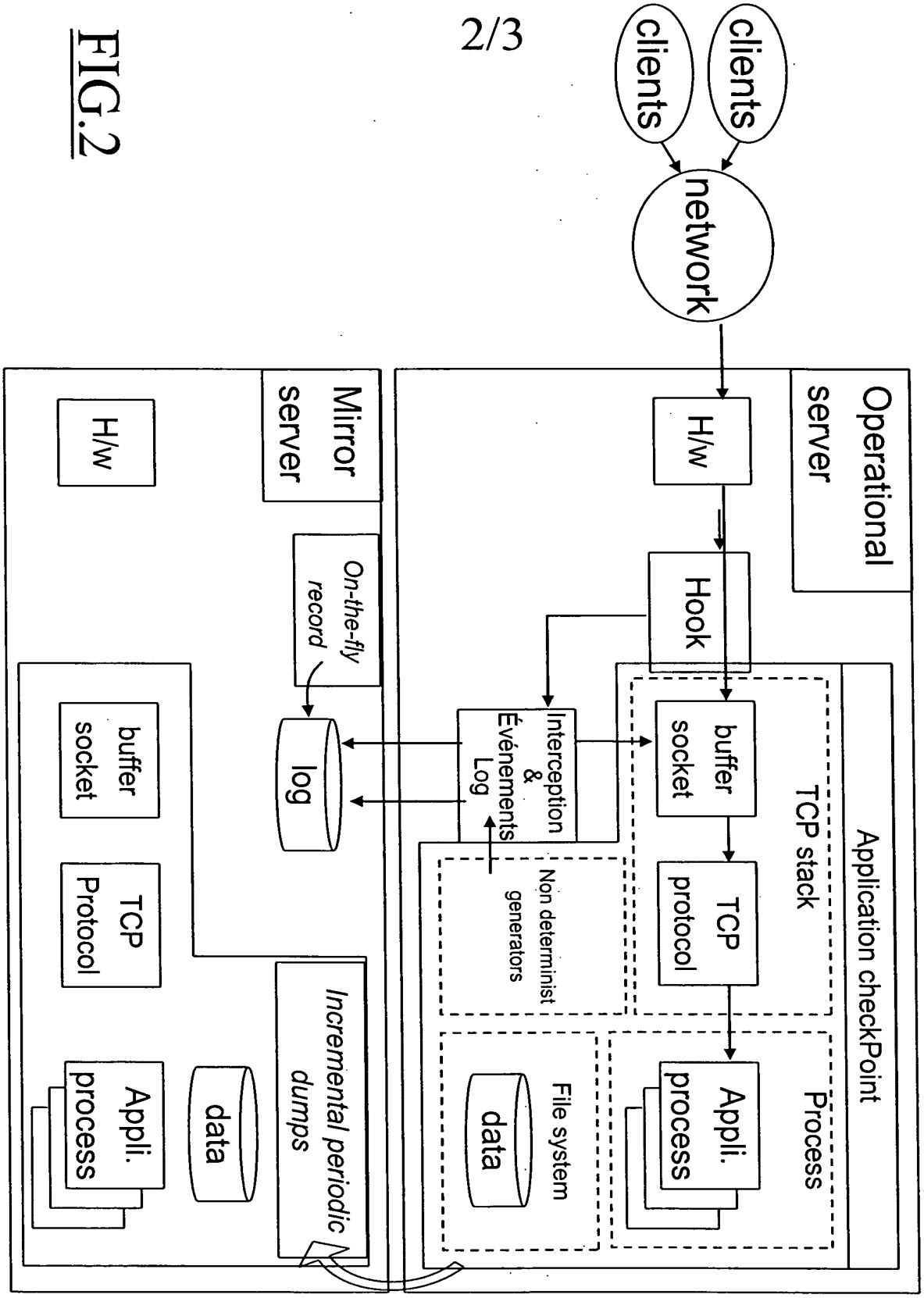

Supervision and fault detection
Checkpoint
Process migration
System resources manager
Connection migration
File system Replication
External events log and replay
Resources introspection
MetaProcess

FIG.1

FIG.2


clients
clients
network
Operational server
H/w
Hook
Application checkPoint
TCP stack
buffer socket
TCP protocol
Process
Appli. process
Interception & Événements Log
Non determinist generators
File system
data
log
On-the-fly record
Mirror server
H/w
buffer socket
TCP Protocol
Appli. process
data
Incremental periodic dumps

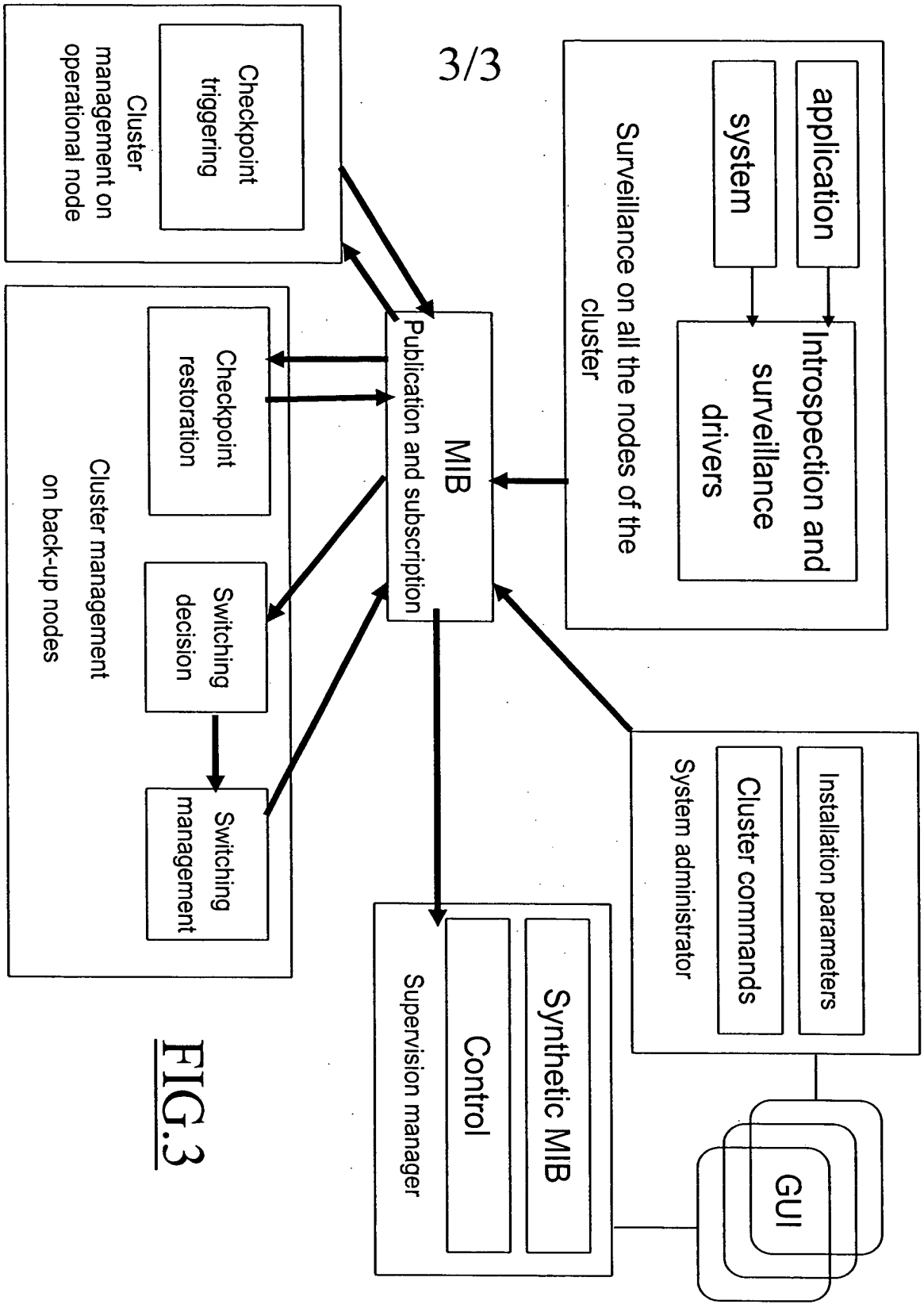

application
system
Introspection and surveillance drivers
Surveillance on all the nodes of the cluster
Checkpoint triggering
Cluster management on operational node
MIB
Publication and subscription
Checkpoint restoration
Switching decision
Switching management
Cluster management on back-up nodes
Installation parameters
Cluster commands
System administrator
Synthetic MIB
Control
Supervision manager
GUI

FIG.3